

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/007882

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 A61K9/26

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, WPI Data, PAJ, CHEM ABS Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 95/18602 A (ALKERMES INC ; DIBIASE MARY (US); BERNSTEIN HOWARD (US)) 13 July 1995 (1995-07-13) page 6, paragraph 1 examples 1,2 -----	1-6, 9-25, 30, 31
A		20-32
X	TRENKTROG TIMM ET AL: "Enteric coated insulin pellets: Development, drug release and in vivo evaluation" EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol. 4, no. 6, 1996, pages 323-329, XP002314437 ISSN: 0928-0987 page 323, right-hand column, last paragraph - page 324, paragraph 1 page 324, right-hand column, paragraph 2 - page 325, paragraph 1 ----- -/-	1,2,4-6, 9-19

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

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Date of the actual completion of the international search

Date of mailing of the international search report

3 February 2005

23/02/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

VON EGGEKRAUT, S

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 468 959 B1 (FREIDENREICH JURGEN ET AL) 22 October 2002 (2002-10-22) column 2, line 65 – column 3, line 57 claims 1,7 example 1	1
X	WO 93/13753 A (ALFATEC PHARMA GMBH) 22 July 1993 (1993-07-22) page 3, paragraph 3 page 17, paragraph 2 example 1	1-5,9-19
X	EP 1 203 590 A (DAINIPPON PHARMACEUTICAL CO) 8 May 2002 (2002-05-08)  paragraph '0025! – paragraph '0029! examples 1,6,7 figure 11a	1-9,12, 13,15, 18,19
A	TAKEUCHI H ET AL: "ENTERAL ABSORPTION OF INSULIN IN RATS FROM MUCOADHESIVE CHITOSAN- COATED LIPOSOMES" PHARMACEUTICAL RESEARCH, NEW YORK, NY, US, vol. 13, no. 6, June 1996 (1996-06), pages 896-901, XP002055070 ISSN: 0724-8741 abstract page 896, right-hand column, paragraph 2 – page 897, left-hand column, line 14	
A	DORKOOSH F A ET AL: "Peroral drug delivery systems for peptides and proteins" S.T.P. PHARMA SCIENCES 2002 FRANCE, vol. 12, no. 4, 2002, pages 213-221, XP008041739 ISSN: 1157-1489 page 216, left-hand column, paragraph 4 abstract	
A	BERNKOP-SCHNURCH A: "The use of multifunctional polymers for non-invasive peptide and protein application" EXPERT OPINION ON THERAPEUTIC PATENTS 2000 UNITED KINGDOM, vol. 10, no. 9, 2000, pages 1357-1366, XP002314439 ISSN: 1354-3776 page 1362, left-hand column, last paragraph – right-hand column, last paragraph	

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/007882

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 9518602		A	13-07-1995	AU WO	1677095 A 9518602 A1	01-08-1995 13-07-1995
US 6468959	B1	22-10-2002	DE AT AU AU CA WO DE DK EP ES GR US	4140186 A1 134875 T 671964 B2 3080192 A 2125284 A1 9310767 A1 59205625 D1 615444 T3 0615444 A1 2085656 T3 3019608 T3 5614219 A	09-06-1993 15-03-1996 19-09-1996 28-06-1993 10-06-1993 10-06-1993 11-04-1996 08-07-1996 21-09-1994 01-06-1996 31-07-1996 25-03-1997	
WO 9313753	A	22-07-1993	DE AT AT AT AT AU AU AU AU AU AU AU AU AU AU AU CA CA WO WO WO DE DE DE DE DK DK DK DK EP EP EP EP ES ES ES ES GR GR GR JP JP US US US US	4201179 A1 156350 T 151631 T 142484 T 181666 T 3343093 A 679905 B2 3343193 A 679906 B2 3343293 A 2128242 A1 2128244 A1 9313753 A1 9313754 A1 9313757 A1 59303759 D1 59306197 D1 59307073 D1 59309678 D1 621775 T3 620727 T3 621777 T3 701815 T3 0621775 A1 0620727 A1 0621777 A1 0701815 A1 2108258 T3 2102637 T3 2092808 T3 2133633 T3 3021223 T3 3024062 T3 3024529 T3 3030675 T3 7502735 T 7502736 T 5876754 A 5578307 A 6103269 A 5405616 A 5401502 A	22-07-1993 15-08-1997 15-05-1997 15-09-1996 15-07-1999 03-08-1993 17-07-1997 03-08-1993 17-07-1997 03-08-1993 22-07-1993 22-07-1993 22-07-1993 22-07-1993 22-07-1993 17-10-1996 22-05-1997 11-09-1997 05-08-1999 06-10-1997 26-05-1997 21-10-1996 07-02-2000 02-11-1994 26-10-1994 02-11-1994 20-03-1996 16-12-1997 01-08-1997 01-12-1996 16-09-1999 31-01-1997 31-10-1997 31-12-1997 30-11-1999 23-03-1995 23-03-1995 02-03-1999 26-11-1996 15-08-2000 11-04-1995 28-03-1995	

**INTERNATIONAL SEARCH REPORT**International Application No  
**PCT/EP2004/007882**

Patent document cited in search report	Publication date		Patent family member(s)		Publication date
EP 1203590	A	08-05-2002	AU	778049 B2	11-11-2004
			AU	6472300 A	05-03-2001
			CA	2378265 A1	15-02-2001
			EP	1203590 A1	08-05-2002
			CN	1377281 T	30-10-2002
			WO	0110467 A1	15-02-2001